

KENTUCKY ALIGNMENT FOR NIH SUPPLEMENT HOW YOUR BRAIN UNDERSTANDS WHAT YOUR EAR HEARS

<b>HOW YOUR BRAIN UNDERSTANDS WHAT YOUR EAR HEARS</b>		
<b>Kentucky Core Content for Science Assessment: Grades 5 through 7</b>		
<b>Lesson</b>	<b>Standard</b>	<b>Description</b>
4, 5	SC-M-1.3.1	Energy is a property of many substances and is associated with heat, light, electricity, and sound. Energy is transferred in many ways.
4, 5	SC-M-1.3.5	Electrical circuits provide a means of transferring electrical energy when heat, light, sound, and chemical changes are produced.
4, 5	SC-M-3.1.4	Specialized cells perform specialized functions in multicellular organisms. Groups of specialized cells cooperate to form tissues. Different tissues are, in turn, grouped together to form larger functional units called organs. Each type of cell, tissue, and organ has a distinct structure and set of functions that serve the organism.
2, 3, 4, 5	SC-M-3.2.2	Regulation of an organism's internal environment involves sensing the internal environment and changing physiological activities to keep conditions within the range required to survive. Maintaining a stable internal environment is essential for an organism's survival.
1, 2, 3, 4, 5	SC-M-3.2.3	Behavior is one kind of response an organism may make to an internal or environmental stimulus. A behavioral response requires coordination and communication at many levels including cells, organ systems, and organisms. Behavioral response is a set of actions determined in part by heredity and in part from experience.
1, 2, 3	SC-M-3.4.1	Biological change over time accounts for the diversity of species developed through gradual processes over many generations. Biological adaptations include changes in structures, behaviors, or physiology that enhance survival and reproductive success in a particular environment.
1, 2, 3, 4, 5	<b>2.1 Scientific Ways of Thinking and Working</b>	Students will refine and refocus questions that can be answered through scientific investigation combined with scientific information; use appropriate equipment, tools, techniques, technology and mathematics to gather, analyze, and interpret scientific data; use evidence, logic, and scientific knowledge to develop scientific explanations; design and conduct scientific investigations; communicate designs, procedures, observations, and results of scientific investigations; and review and analyze scientific investigations and explanations of other students.
3, 4, 5	<b>2.1 Science and Technology</b>	Students will describe how science helps drive technology and technology helps drive science.
4, 5	<b>2.1 Personal</b>	Students will describe the individual's roles and responsibilities in the following areas: changes in populations,

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	<b>and Social Perspectives</b>	resources and environments, natural hazards, science and technology in society, and personal and societal issues about risks and benefits.
<b>3, 4, 5</b>	<b>2.1 History and Nature of Science</b>	Students will analyze the role science plays in everyday life: past, present, and future

**Kentucky Core Content for Reading Assessment: Grades 5 through 7**

<b>Lesson</b>	<b>Standard</b>	<b>Description</b>
<b>1, 3, 4</b>	<b>RD-M-2.0.4</b>	Know the meanings of common prefixes and suffixes to comprehend unfamiliar words.
<b>All lessons</b>	<b>RD-M-2.0.8</b>	Make predictions, draw conclusions, and make generalizations about what is read.
<b>All lessons</b>	<b>RD-M-2.0.9</b>	Reflect on and evaluate what is read.
<b>All lessons</b>	<b>RD-M-2.0.10</b>	Connect information from a passage to students' lives and/or real world issues.
<b>All lessons</b>	<b>RD-M-2.0.14</b>	Summarize information from a passage.
<b>3, 4, 5</b>	<b>RD-M-4.011</b>	Locate and apply information for a specific purpose (e.g., following directions, completing a task).
<b>3, 4, 5</b>	<b>RD-M-4.012</b>	Identify the sequence of activities needed to carry out a procedure.

**Kentucky Core Content for Mathematics Assessment: Grades 6 through 8**

<b>Lesson</b>	<b>Standard</b>	<b>Description</b>
<b>5</b>	<b>MA-M-1.2.1</b>	Add, subtract, multiply, and divide rational numbers to solve problems.
<b>3, 5</b>	<b>MA-M-1.2.2</b>	Compute large and small quantities and check for reasonable and appropriate computational results.
<b>3, 5</b>	<b>MA-M-1.2.3</b>	Apply ratios, proportional reasoning, and percents.
<b>5</b>	<b>MA-M-3.3.2</b>	Understand how theoretical and experimental probabilities are related.
<b>2, 3, 5</b>	<b>MA-M-3.2.1</b>	Organize, represent, analyze, and interpret sets of data.
<b>1, 2, 3, 5</b>	<b>MA-M-3.2.2</b>	Construct and interpret displays of data.

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<b>3, 5</b>	<b>MA-M-4.3.2</b>	Make generalizations about how the change in one variable affects the change in another variable.
<b>Kentucky Core Content Practical Living/Vocational Studies: Middle Level – Health Subdomain</b>		
<b>Lesson</b>	<b>Standard</b>	<b>Description</b>
<b>1, 2</b>	<b>PL-M-1.1.3</b>	Communication, cooperation, rules, and respect are important to the effective functioning of groups.
<b>3, 4, 5</b>	<b>PL-M-1.3.1</b>	Diet, exercise, rest, and other choices (e.g., tobacco, alcohol, and other drug use) affect body systems (e.g., circulatory, respiratory, digestive).
<b>5</b>	<b>PL-M-1.3.4</b>	There are risks associated with unhealthy habits and behaviors that affect the physical health of adolescents.
<b>5</b>	<b>PL-M-1.6.1</b>	Health and safety hazards encountered by adolescents can be life threatening.